Water Quality Sampling

Water Chemistry Analysis

- pH
- ANC
- Sulfate
- Nitrate
- Nitrite
- Ammonia

- Total nitrogen
- Total phosphorous
- Orthophosphate
- Chloride
- Conductivity
- DOC

Prior to Sampling

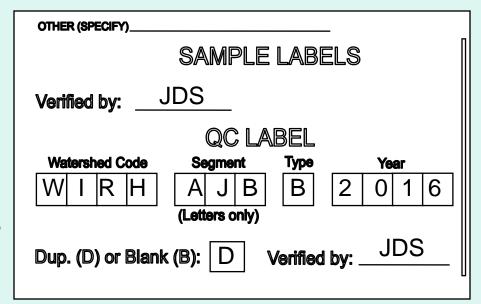
- Bottles/syringes are labeled with site identification, date/time collected, and the names of samplers
 - Make sure numbers on bottles and field sheets match
- Labels covered with transparent packaging tape

MBSS Site: <u>WIRH-102-B-2016</u> Date: <u>3/1/2016</u>

Sampler: <u>Smith</u> Time: <u>9:15</u>

Field Sheets

- Make sure numbers on bottles and field sheets match
- Duplicates and blanks are also labeled



Sampling Collection

- Be sure to...
 - Triple rinse with stream water
 - Collect upstream from disturbed waters
 - Collect from middle of water column
 - Minimize air in sample
 - Syringes are filled to final volume of 55 mL after all air has been evacuated
 - Completely submerge bottles if possible
 - Keep samples on ice

Sample Storage and Shipment

- Samples are stored at 4° until shipped
- Samples are packed to avoid damage/leakage during transport (e.g. syringes are placed in plastic containers, bubble wrap, etc.)
- Chain of custody forms are completed and verified
- Samples are processed (filtered and fixed) within 48 hours of collection

Packing Syringes

- Verify sample
 - Volume ≥ 55mL
 - No air bubbles
 - Lock closed
- Place in separate container
- Protect plunger and lock with bubble wrap
- Tape container shut



For Carrier Shipping

NO carrier (UPS, FedEx, DHL, USPS) accepts leaky containers.

- Place samples and ice or ice substitute in large trash bag inside cooler.
- 2. Seal bag.
- 3. Place paperwork in zip-top bag on top of sample bag.
- 4. Tape (clear packaging, not duct) cooler shut.
- 5. Affix shipping label.
- 6. Notify your lab of shipment.

